

Name \_\_\_\_\_

AP Statistics

Date \_\_\_\_\_

**Investigating with transformations**

The following table of data follows either a linear, exponential, or power form. It is your job to figure out which it is, and then work backwards from the regression equation to an estimate for the actual equation from which the data came.

1.

x	y
2	4.656
10	5.451
15	5.672
25	5.963
40	6.244
50	6.382
78	6.667
100	6.831
140	7.060
152	7.117
181	7.240
212	7.353

The following table of data follows either a linear, exponential, or power form. It is your job to figure out which it is, and then work backwards from the regression equation to an estimate for the actual equation from which the data came.

2.

x	y
2	.594
3	.612
4	.630
5	.649
6	.669
7	.689
8	.709
9	.731
10	.753
11	.775
12	.798
13	.822
14	.847
15	.872